

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER</b> 4240-140  <b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b> Not Yet Assigned <b>10/564880</b>
<b>INTERNATIONAL APPLICATION NO.</b> PCT/KR03/02927	<b>INTERNATIONAL FILING DATE</b> 12/31/2003	<b>PRIORITY DATE CLAIMED</b> 7/16/2003
<b>TITLE OF INVENTION</b> PLASMID HAVING A FUNCTION OF T-VECTOR AND EXPRESSION VECTOR, AND EXPRESSION OF THE TARGET GENE USING THE SAME		
<b>APPLICANT(S) FOR DO/EO/US</b> Young Shin Song, Haryoung Poo, Moon-Hee Sung, Seung-Pyo Hong, Yoon Ho Choi, Kwang Kim, IL Han Lee, Je Hyun Park		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) published as WO 2005/007858 a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <b>Items 11 to 20 below concern document(s) or information included:</b> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10501380</b> Not Yet Assigned	INTERNATIONAL APPLICATION NO. PCT/KR03/02927	ATTORNEY'S DOCKET NUMBER 4240-140
20. Other items or information:		
The following fees have been submitted		<b>CALCULATIONS</b> <b>PTO USE ONLY</b>
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300		\$300
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4) ..... \$0 All other situations ..... \$200		\$ 200
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4) ..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... \$400 All other situations ..... \$500		\$ 500
<b>TOTAL OF 21, 22 and 23 =</b>		\$1,000
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing IN COMPLIANCE WITH 37 cfr 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra sheets	RATE
33 - 100 =	0 /50 =	0 x \$250
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of the commencement of the national stage (37 CFR 1.492(h)).		\$ 0
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	25 - 20 =	5
Independent claims	3 - 3 =	0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+
		\$360
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$1,250
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/3.		\$1,250
<b>SUBTOTAL =</b>		\$1,250
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ 0
<b>TOTAL NATIONAL FEE =</b>		\$1,250
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$ 40.00
<b>TOTAL FEES ENCLOSED =</b>		\$1,290
		Amount to be refunded:
		\$
		Amount to be charged:
		\$

10/564880

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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IAP20 Rec'd PET/PTO 17 JAN 2006

- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-3284. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

INTELLECTUAL PROPERTY/TECHNOLOGY LAW  
P.O. Box 14329  
Research Triangle Park, NC 27709-4329

SIGNATURE: \_\_\_\_\_

Steven J. Hultquist  
NAME

28,021  
REGISTRATION NUMBER

10/564880

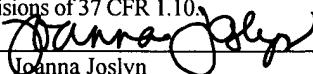
1AP20 Rec'd PCT 17 JAN 2006

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>In re United States Patent Application (371 of Intl Patent Application PCT/KR2003/002927) of:</b>	)	<b>Docket No.:</b>	<b>4240-140</b>
<b>Applicants:</b>	)		
<b>SONG, Young Shin, et al.</b>	)		
<b>Application No.:</b>	)		
<b>New U.S. National Stage</b>	)		
<b>Application of PCT</b>	)		
<b>International Application No.</b>	)		
<b>PCT/KR2003/002927</b>	)		
<b>Date Filed:</b>	)		
<b>17 January 2006</b>	)		
<b>Priority Date:</b>	)		
<b>16 July 2003 (Korean Patent</b>	)		
<b>Application No. 10-2003-</b>	)		
<b>0048625)</b>	)		
<b>Title:</b>	)	<b>Customer No.:</b>	
<b>PLASMID HAVING A</b>	)		
<b>FUNCTION OF T-VECTOR</b>	)		
<b>AND EXPRESSION VECTOR,</b>	)		
<b>AND EXPRESSION OF THE</b>	)		
<b>TARGET GENE USING THE</b>	)		
<b>SAME</b>	)		<b>23448</b>

**EXPRESS MAIL CERTIFICATE**

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.

  
Joanna Joslyn

January 17, 2006  
Date

EO 007 512 962 US  
Express Mail Label Number

**SUBMISSION OF NEW U.S. NATIONAL PHASE PATENT APPLICATION BASED ON INTERNATIONAL PATENT APPLICATION NO. PCT/KR2003/002927**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

IAP20 Rec'd PCT/PTO 17 JAN 2006

Sir:

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/KR2003/002927 and claiming priority of Korean Patent Application No. 10-2003-0048625. A copy of the PCT International application as originally filed is included herewith. Further included is a return postcard, an Information Disclosure Statement and 11 cited references, an executed Assignment document and Assignment Recordation Cover Sheet, an executed Declaration and Power of Attorney document, a sequence listing and diskette, a Preliminary Amendment, a Credit Card Form authorizing payment in the amount of \$ 1,290.00 and a 35 U.S.C. §371 transmittal form.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,



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Attorney for Applicants

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